

Belchertown / Belchertown Public Schools	
<b>MODEL FUEL EFFICIENT VEHICLE POLICY</b>	
Effective Date	April 27, 2010
Revisions	
Approval Date	Board of Selectmen: April 12, 2010 Belchertown Public Schools: April 27, 2010

## **FUEL EFFICIENT VEHICLE POLICY**

Upon the recommendation of the Department of Public Works and the Energy Committee, the Board of Selectmen and the Belchertown Public Schools have approved the following policy to govern the replacement of all non-exempt municipal vehicles as defined below.

### **DEFINITIONS**

**Combined city and highway MPG (EPA Combined fuel economy):** WHEREAS Combined Fuel Economy means the fuel economy from driving a combination of 43% city and 57% highway miles and is calculated as follows:

$$=1/((0.43/\text{City MPG})+(0.57/\text{highway MPG}))$$

**Drive System:** WHEREAS The manner in which mechanical power is directly transmitted from the drive shaft to the wheels. The following codes are used in the drive field:

- AWD = All Wheel Drive: four-wheel drive automatically controlled by the vehicle powertrain system
- 4WD = 4-Wheel Drive: driver selectable four-wheel drive with 2-wheel drive option
- 2WD = 2-Wheel Drive

**Heavy-duty truck:** WHEREAS A vehicle with a manufacturer's gross vehicle weight rating (GVWR) of more than 8,500 pounds.

### **POLICY STATEMENT**

NOW, THEREFORE BE IT ORDERED In an effort to reduce Belchertown's fuel consumption and energy costs over the next five years the Board of Selectmen hereby adopts a policy to purchase only fuel efficient vehicles to meet this goal.

### **PURPOSE**

To establish a requirement that the Town of Belchertown purchase only fuel efficient vehicles for municipal/school use whenever such vehicles are commercially available and practicable.

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## APPLICABILITY

This policy applies to all divisions and departments of the Town of Belchertown.

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## GUIDELINES

All departments / divisions shall purchase only fuel-efficient vehicles for municipal use whenever such vehicles are commercially available and practicable.

On behalf of the Town of Belchertown and the Belchertown Public Schools, the Department of Public Works will maintain an annual vehicle inventory for non-exempt vehicles and a plan for replacing these vehicles with vehicles that meet the fuel efficiency ratings below. Based on the most recently published US Environmental Protection Agency data on fuel efficient vehicles, vehicles are to have a combined city and highway MPG no less than the following:

- 2 wheel drive car: 29 MPG
- 4 wheel drive car: 24 MPG
- 2 wheel drive small pick-up truck: 20 MPG
- 4 wheel drive small pick-up truck: 18 MPG
- 2 wheel drive standard pick-up truck: 17 MPG
- 4 wheel drive standard pick-up truck: 16 MPG

**\*NOTE:** The EPA maintains a database on vehicle fuel efficiency that is updated occasionally throughout the year, as new models are released. As increasing numbers of fuel efficient vehicle models are released, the minimum combined MPG requirements of the Green Communities Program may be revised. This policy may be updated from time to time to reflect any changes to the MPG requirements. The latest fuel efficiency MPG ratings are available through Massachusetts Department of Energy Resources Green Communities Program.

## Exemptions

- Heavy-duty vehicles such as fire-trucks, ambulances, and public works trucks are exempt from this criterion
- Police cruisers are exempt from this criterion. However, the Town of Belchertown is committed to purchasing fuel efficient cruisers when they become commercially available. Police department administrative vehicles must meet fuel efficient requirements

## Inventory

The following information shall be included in a vehicle inventory list and said list shall be updated on an annual basis:

Model	Make	Model Year	Year Purchased	Drive System	Weight Class	MPG	Annual Miles Driven	Total Fuel Consumption	Vehicle Function

NOTE: Departments/Divisions may use EPA combined MPG estimates or actual combined MPG.

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**FUEL-EFFICIENT VEHICLE POLICY – REPLACEMENT POLICY VEHICLES:**

<b>Model</b>	<b>Make</b>	<b>Model Year</b>	<b>Drive System</b>	<b>Wght Class</b>	<b>Vehicle Function</b>	<b>Fuel Type</b>
<b>General Gov't</b>						
Pick-up	Chevy	2003	4WD	6,400	Parks & Rec.	Gas
Crown Vic.	Ford	2006	2WD	4,020	Inspec. Serv.	Gas
Blazer	Chevy	2002	4WD	4,071	Assessors	Gas
Ranger	Ford	2004	4WD	5,140	Animal Control	Gas
Crown Vic.	Ford	2006	2WD	4,020	Computer Dept.	Gas
<b>DPW</b>						
Taurus	Ford	1997	2WD	4,722	Highway	Gas
S-10	Chevy	1988	2WD	3,540	Maint.	Gas
Ranger	Ford	2000	4WD	4,820	Maint.	Gas
F-150	Ford	1995	4WD	6,250	Maint.	Gas
S-10	Chevy	1982	2WD	3,540	Maint.	Gas
Ranger	Ford	2000	4WD	4,820	WWTP	Gas
<b>EMS</b>						
Blazer	Chevy	1984	4WD	6,680	EMS	Diesel
Trailblazer	Chevy	2005	4WD	6,680	EMS	Gas

Vehicle Consumption Report -2008/2009													
Model	Make	Model Year	Drive System	Wght Class	Vehicle Function	Vehicle	Fuel Type	Odometer 1/1/2009	Odometer 1/1/2010	Ttl.Fuel-09 Consumption	2009 MPG	Annual Miles Driven	Ttl. Fuel-08 Consumption
<b>General Gov't</b>													
Van	Dodge	1997	2WD	9,400	Council On Aging	COA	Gas	0	183,830	133.4	N/A	N/A	276.5
Van	Dodge	2003	2WD	9,200	Council On Aging	COA	Gas	0	150,649	2705.1	N/A	N/A	2,931
Van	Dodge	1999	2WD	8,700	Council On Aging	COA	Gas	0	36,921	133.4	N/A	N/A	276.5
Van	Dodge	2010	2WD	12,500	Council On Aging	COA	Diesel	0	NEW	0	N/A	N/A	0
Pick-up	Chevy	2003	2WD	6,400	Parks & Rec.	P & R	Gas	0	28,850	388.6	N/A	N/A	350.2
Crown Vic.	Ford	2006	2WD	4,020	Inspe. Serv.	Inspe.	Gas	0	124,499	459.4	N/A	N/A	551.3
Blazer	Chevy	2002	4WD	4,071	Assessors	Assess.	Gas	0	77,045	877.6	N/A	N/A	323.1
0	0	0	0	0	Assessors	Assess.	Gas	0	0	146.4	N/A	N/A	91.7
Ranger	Ford	2004	4WD	5,140	Animal Control	Dog Officer	Gas	0	79,810	387.5	N/A	N/A	270.4
Crown Vic.	Ford	2006	2WD	4,020	Computer Dept.	Computer	Gas	0	108,880	298.2	N/A	N/A	87.8
<b>DPW</b>													
Pick-up	Chevy	1987	4WD	9,400	Highway	B-4	Diesel	73,750	84,263	968.8	10.85	10,513	959
Pickup	Chevy	1986	4WD	8,800	Highway	B-6	Diesel	73,083	76,480	640	5.31	3,397	387
Taurus	Ford	1997	2WD	4,722	Highway	B-10	Gas	0	127,609	426	N/A	N/A	501.9
Pick-up	Chevy	1999	4WD	8,600	Highway	B-12	Gas	119,070	129,016	1279.3	7.77	9,946	1,367
Pick-up	Chevy	2003	4WD	9,200	Highway	B-15	Gas	62,133	71,932	1328.3	7.38	9,799	1,506
Pick-up	Chevy	1986	4WD	9,400	Highway	B-20	Diesel	42,978	48,600	612.5	9.18	5,622	0
S-10	Chevy	1988	2WD	3,540	Maint.	B-8	Gas	43,571	45,832	150.1	15.06	2,261	562
Pick-up	Dodge	1980	4WD	8,550	Maint.	B-25	Gas	132,414	133,814	255.8	5.47	1,400	2,143
Ranger	Ford	2000	4WD	4,820	Maint.	B-31	Gas	36,661	41,314	597	7.79	4,653	354.8
Crew	Chevy	1986	2WD	8,600	Maint.	B-32	Gas	0	173,841	421.6	N/A	N/A	75.4
Dump 3500	Chevy	1998	4WD	12,000	Maint.	B-35	Gas	48,925	52,265	0	N/A	3,340	0
Van	Chevy	2000	2WD	8,600	Maint.	B-36	Gas	41,407	47,124	623.6	9.17	5,717	1379.2
F-150	Ford	1995	4WD	6,250	Maint.	B-37	Gas	106,135	113,000	518.5	13.24	6,865	708.1
S-10	Chevy	1982	2WD	3,540	Maint.	B-38	Gas	86,554	89,177	240.2	10.92	2,623	230.9
Crew	Dodge	1981	4WD	9,855	Maint.	B-39	Gas	83,689	88,081	1292.6	3.40	4,392	1502.7
Dump-1 Ton	Chevy	1985	4WD	8,800	Maint.	B-40	Gas	41,637	41,636	193.2	N/A	N/A	331.8
Van	Ford	1987	2WD	9,100	Maint.	B-41	Gas	188,317	189,199	179.8	4.91	882	330.4
Ranger	Ford	2000	4WD	4,820	VWVTP	B-5	Gas	52,562	59,424	671.3	10.22	6,862	537.7
F-550	Ford	2005	4WD	17,950	VWVTP	B-30	Gas	8,312	16,595	1381.1	6.00	8,283	821
F-350	Ford	2009	4WD	10,100	VWVTP	B-33	Gas	135,887	2,226	975.1	N/A	N/A	1,409
928	CAT	1995	All Wheel	23,962	Loader	B-11	Gas	0	10,171 hrs	1588	N/A	N/A	1379.8
426	CAT	1995	All Wheel	14,800	Backhoe	B-24	Diesel	0	10,517 hrs	956	N/A	N/A	1097.6
Compressor	Lindsey	1984	Trailer	1,750	Air Compressor	N/A	Gas	0	4,397 hrs	0	N/A	N/A	0
JD4700	John Deere	2002	N/A	3,420	Mower	N/A	Diesel	0	2,366 hrs	506	N/A	N/A	367.9
JD850	John Deere	1980	N/A	2,950	Mower	N/A	Diesel	0	4,100 hrs	82	N/A	N/A	30.3
SWEEPER	Elgin	2005	Hydro	14,290	Sweeper	N/A	Diesel	0	1,820 hrs	395	N/A	N/A	606.5
Generator	Kinsley	1967	Trailer	2,000	Trailer	N/A	Gas	0	193 hrs	0	N/A	N/A	0
Chipper	Morbark	1984	Trailer	2,000	Trailer	N/A	Gas	0	1,897 hrs	0	N/A	N/A	0
1280 Mower	Howard Price	1997	Hydro	0	Mower	N/A	Gas	0	2,834 hrs	205	N/A	N/A	249.1
INT 606	International	1965	N/A	0	Tractor	N/A	Gas	0	0 hrs	421	N/A	N/A	75.4
Road Roller/12A	Wacker	2009	Wacker	2,784	Roller	N/A	Gas	0	82 hrs	0	N/A	N/A	0
Hot Box	RayTech	2005	Trailer	13,980	Trailer	N/A	Propane	0	0 hrs	0	N/A	N/A	0
Massey Ferg.283	Tractor	1996	N/A	5,432	Tractor	N/A	Diesel	0	2,135 hrs	0	N/A	N/A	0
S-100	Bobcat	2009	Hydro	4,110	Skid Steer	N/A	Diesel	0	0 hrs	0	N/A	N/A	0
S-10	Chevy	1988	2WD	0	Pick-Up	B-38	Gas	0	89,177	241	N/A	N/A	230.9
2674	International	2001	6 Wheel	44,000	Dump Truck	B-7	Diesel	0	51,324	949	N/A	N/A	791.7
FLD120	FRHT	1999	10-wheel	64,000	Dump Truck	B-9	Diesel	0	62,389	863	N/A	N/A	802.8
F350	Ford	1997	4WD	11,000	Dump Truck	B-13	Diesel	0	109,472	1253	N/A	N/A	1478.1
FLD120	FRHT	1997	10 Wheel	64,000	Dump Truck	B-14	Diesel	0	64,069	1067	N/A	N/A	1182.6
L8000	Ford	1995	6 Wheel	35,000	Dump Truck	B-16	Diesel	0	90,870	425	N/A	N/A	579.3
Granite	MACK	2005	6 Wheel	47,560	Dump Truck	B-17	Diesel	0	26,311	1274	N/A	N/A	955
L8000	Ford	1986	6 Wheel	35,000	Dump Truck	B-24	Diesel	0	0	769	N/A	N/A	1128
<b>Schools</b>													
Van	Ford	2006	2WD	9,300	School Dept.	School Dept.	Gas	0	16,771	475.3	N/A	N/A	387.4
0	0	0	0	0	School Dept.	School Dept.	Gas	0	0	46.4	N/A	N/A	124.2
Pick-Up	Ford	2008	4WD	9,600	School Dept.	School Dept.	Gas	0	6,897	501.3	N/A	N/A	562.3
<b>EMS</b>													
AMB	Ford	2003	2WD	14,500	EMS/Ambulance	R-2	Diesel	0	77,105	1152	N/A	N/A	1080.9
Blazer	Chevy	1984	4WD	6,680	EMS	R -4	Diesel	0	88,551	69	N/A	N/A	109.4
AMB	Ford	2008	2WD	14,500	EMS/Ambulance	R-2	Diesel	0	18,642	1156	N/A	N/A	1384.2
Trailblazer	Chevy	2005	4WD	6,680	EMS	P-1	Gas	0	42,345	450	N/A	N/A	375.8
<b>POLICE DEPT</b>													
Crown Victoria	Ford	2005	2WD	4,101	Chief	Car-1	Gas	0	51,000	499.1	N/A	N/A	491.9
Charger	Dodge	2008	2WD	4,031	Cruiser	Car-2	Gas	0	53,000	718	N/A	N/A	0
Crown Victoria	Ford	2008	2WD	4,020	Cruiser	Car-3	Gas	0	58,000	2631.5	N/A	N/A	2665.5
Charger	Dodge	2009	2WD	4,031	Cruiser	Car-4	Gas	0	18,000	2242.3	N/A	N/A	2577
Crown Victoria	Ford	2007	4WD	4,129	Cruiser	Car-6	Gas	0	96,000	2923.4	N/A	N/A	2885
Ford Explorer	Ford	2003	2WD	7,300	SUV	Car-7	Gas	0	72,000	3412.2	N/A	N/A	3335.5
Crown Victoria	Ford	2008	2WD	4,020	K-9 Unit	Car-9	Gas	0	32,000	0	N/A	N/A	0
Crown Victoria	Ford	2009	2WD	4,020	Supervisors	S-10	Gas	0	23,000	2312.7	N/A	N/A	2743.4
Crown Victoria	Ford	2006	2WD	4,020	Supervisors	S-11	Gas	0	117,000	1974.3	N/A	N/A	2142.6
Crown Victoria	Ford	2001	2WD	4,020	Detective	D-20	Gas	0	92,000	427.1	N/A	N/A	501.9
Crown Victoria	Ford	2001	2WD	4,020	Lieutenant	L-30	Gas	0	90,000	677.5	N/A	N/A	655.8
<b>Fire Dept.</b>													
F550	Ford	2003	4WD	17,500	Fire	Brush 6	Gas	0	0	49	N/A	N/A	187.4
4700	International	1995	2WD	25,200	Fire	R-5	Diesel	0	11,629	93	N/A	N/A	131.2
Metro Star	Spartan	2008	2WD	44,000	Fire	Eng. 2	Diesel	0	5,440	486	N/A	N/A	257.4
N/A	GMC	1979	2WD	30,200	Tanker/T-1	T-1	Diesel	0	0	122	N/A	N/A	83.9
2500	Chevy	1990	4WD	8,600	Fire	Brush 9	Diesel	0	0	0	N/A	N/A	0
N/A	GMC	1983	2WD	33,200	Tanker/T-3	T-3	Diesel	0	32,545	97	N/A	N/A	173.2
N/A	Willys	1953	4WD	7,300	Forestry/R-7	R-7	Gas	0	0	26	N/A	N/A	22.7
N/A	International	2002	2WD	41,000	E-1	Eng. 1	Diesel	0	16,596	307	N/A	N/A	499.1
3500	Chevy	2007	4WD	9,900	Chief	52 X-1	Diesel	0	48,711	13	N/A	N/A	61.1
2500	Chevy	1984	4WD	8,600	Fire	Brush 4	Diesel	0	0	0	N/A	N/A	0
Tahoe	Chevy	2001	4WD	6,800	Lieutenant	52 X-2	Gas	0	70,900	483	N/A	N/A	534.4
1600	International	1963	2WD	18,500	E-4	Eng.4	Diesel	0	0	61	N/A	N/A	30.2